
Drinking Water Surveillance Program

**SOUTH PEEL
(LORNE PARK)
WATER SUPPLY
SYSTEM**

Annual Report 1989



**Environment
Environnement**

**SOUTH PEEL (LORNE PARK)
WATER SUPPLY SYSTEM**

DRINKING WATER SURVEILLANCE PROGRAM

ANNUAL REPORT 1989

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EXECUTIVE SUMMARY

DRINKING WATER SURVEILLANCE PROGRAM

SOUTH PEEL (LORNE PARK) WATER SUPPLY SYSTEM 1989 ANNUAL REPORT

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. In 1989, 65 plants were being monitored.

The South Peel (Lorne Park) Water Treatment Plant is a conventional treatment plant which treats water from Lake Ontario. The process consists of coagulation, flocculation, sedimentation, filtration, disinfection and fluoridation. This plant has a design capacity of 227 x 1000 m³/day and in conjunction with the Lakeview plant serves a population of approximately 600,000.

Water samples from the raw and treated water at the plant and from one house in the distribution system were taken monthly. The Lorne Park Water Supply System was sampled for approximately 180 parameters. Parameters were divided into the following groups: Bacteriological, Inorganic and Physical (Laboratory Chemistry, Field Chemistry and Metals) and Organic (Chloroaromatics, Pesticides and PCB, Phenolics, Polyaromatic Hydrocarbons and Volatiles). Chlorophenols and Specific Pesticides were only analyzed in June and November.

A summary of results is shown in Table A.

Inorganic and Physical parameters were below respective health related ODWOS.

Of a total of approximately 110 Organic parameters tested for, none exceeded health related guidelines.

During 1989 the DWSP sampling results indicated that the Lorne Park Water Supply System produced good quality water and this quality was maintained in the distribution system.

TABLE A

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) WSS

SUMMARY TABLE BY SCAN

SCAN	RAW		TREATED		SITE 1	
	TESTS	POSITIVE	TESTS	POSITIVE	TESTS	POSITIVE
BACTERIOLOGICAL	36	31	86	36	6	16
					33	7
CHEMISTRY (FLD)	36	36	100	72	72	100
					132	132
CHEMISTRY (LAB)	252	213	84	252	181	71
					406	330
METALS	286	164	57	287	156	54
					516	297
CHLOROAROMATICS	168	0	0	168	0	0
					154	0
CHLOROPHENOLS	12	0	0	12	0	0
					0	0
PAN	176	0	0	191	0	0
					0	0
PESTICIDES & PCB	382	0	0	395	0	0
					309	0
PHENOLICS	12	6	50	12	5	41
					0	0
SPECIFIC PESTICIDES	66	0	0	66	0	0
					11	0
VOLATILES	348	1	0	348	48	13
					319	44
TOTAL	1774	451	1839	468	1880	810

NO HEALTH RELATED GUIDELINES WERE EXCEEDED

A POSITIVE VALUE DENOTES THAT THE RESULT IS GREATER THAN THE STATISTICAL LIMIT OF DETECTION AND IS QUANTIFIABLE

A '.' INDICATES THAT NO SAMPLE WAS TAKEN

DRINKING WATER SURVEILLANCE PROGRAM
SOUTH PEEL (LORNE PARK) WATER SUPPLY SYSTEM
1989 ANNUAL REPORT

INTRODUCTION

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. In 1989, 65 plants were being monitored.

The DWSP was initiated at the Lorne Park Water Supply System in Mississauga in January 1986. Sampling frequency for this plant was reduced to twice a year in 1987. At the request of regional staff monthly sampling was resumed in April, 1988. Annual reports were published for 1986 (ISBN 0-7729-2562-3) and 1987 and 1988 (ISSN 0839-9042).

This report contains information and results for 1989.

In order to accommodate the increasing number of plants on the DWSP and to facilitate the timely completion of the 1989 annual reports, plants with two or more years of published data will receive an abbreviated annual report. This report maintains the same general format as in previous years but does not include a comprehensive

discussion of results. For more detail on the parameters analyzed and discussion of results, consult the 1987 and 1988 reports.

PLANT DESCRIPTION

The Lorne Park Water Treatment Plant is a conventional treatment plant that treats water from Lake Ontario. The process consists of coagulation, flocculation, sedimentation, filtration, disinfection and fluoridation. This plant has a design capacity of $227 \times 1000 \text{ m}^3/\text{day}$ and reported flows on day of sampling ranged from $88 \times 1000 \text{ m}^3/\text{day}$ and $216 \times 1000 \text{ m}^3/\text{day}$. The Lorne Park plant in conjunction with the Lakeview plant serves a population of approximately 600,000.

The plant location is shown in Figure 1. Plant process details are shown in Figure 2. General plant information is presented in Table 2.

SAMPLING AND ANALYSIS

Plant operating personnel perform analyses on parameters for process control (Table 1).

The Lorne Park Water Treatment Plant and distribution system was sampled for approximately 180 parameters monthly. The Specific Pesticides and Chlorophenols scans were sampled in June and

TABLE 1

DRINKING WATER SURVEILLANCE PROGRAM ANNUAL REPORTIN-PLANT MONITORING SOUTH PEEL (LORNE PARK) WTP 1989

<u>PARAMETER</u>	<u>LOCATION</u>	<u>FREQUENCY</u>
Chlorine residual - free	Top of filters	continuous
	Bottom of filters	continuous
	Highlift discharge	every 2 hrs
	Treated water	continuous
- total	Highlift discharge	every 2 hrs
Fluoride	Raw water	daily
	Treated water	continuous
pH	Raw water wet well	every 2 hrs
	Raw water intake	continuous
	Highlift discharge	daily
	Treated water	continuous
Temperature	Raw water wet well	continuous
	Treated water	every 2 hrs
Turbidity	Raw water intake	every 2 hrs
	Raw water wet well	continuous
	Top of filter	continuous
	Bottom of filter	continuous
	Highlift discharge	every 2 hrs

TABLE 2

DRINKING WATER SURVEILLANCE PROGRAM ANNUAL REPORT

GENERAL INFORMATION

LORNE PARK WATER SUPPLY SYSTEM

<u>LOCATION:</u>	1180 LAKESHORE ROAD WEST MISSISSAUGA, ONTARIO (416-822-9120)	
<u>SOURCE:</u>	RAW WATER SOURCE - LAKE ONTARIO	
<u>RATED CAPACITY:</u>	227 (1000 M3/DAY)	
<u>OPERATION:</u>	MINISTRY OF ENVIRONMENT (MOE)	
<u>PLANT SUPERINTENDENT:</u>	R. TUFTS	
<u>MINISTRY REGION:</u>	CENTRAL	
<u>MOE OFFICER:</u>	J. TIMKO	
<u>MUNICIPALITY SERVED</u>	<u>POPULATION</u>	
MISSISSAUGA	450,000	
BRAMPTON	150,000	

FIGURE 1

DRINKING WATER SURVEILLANCE PROGRAM

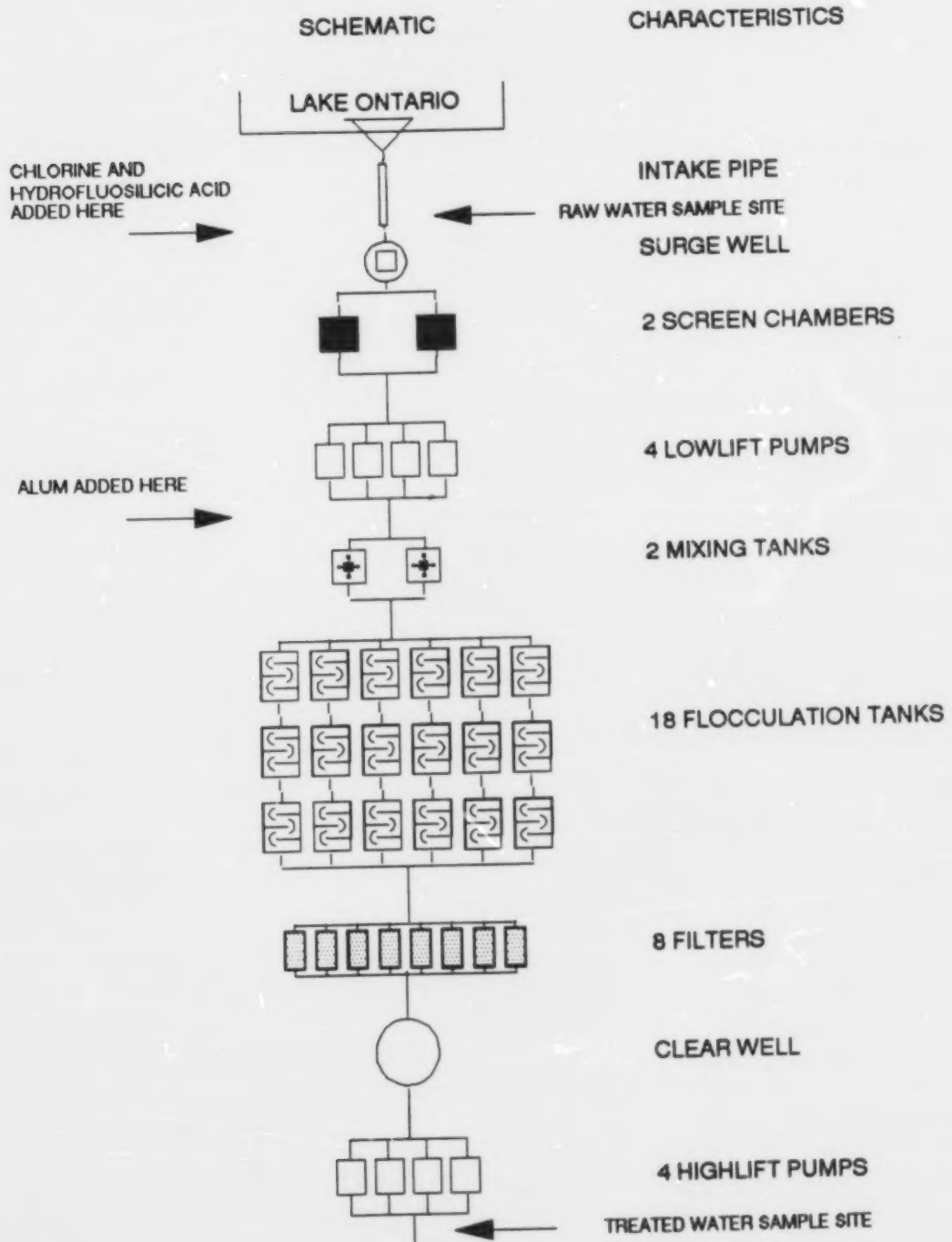
SITE LOCATION MAP

SOUTH PEEL (LORNE PARK) WATER SUPPLY SYSTEM



FIGURE 2

LORNE PARK WATER TREATMENT PLANT



November only. Polyaromatic Hydrocarbons and Phenolics are only analyzed in the raw and treated water at the plant. As of August the triazine pesticides were only analyzed in the raw and treated water. Laboratory analysis was conducted at the Ministry of the Environment facilities in Rexdale, Ontario.

RESULTS

Field Chemistry measurements were recorded on the day of sampling and were entered on the DWSP data base as submitted by plant personnel.

Table 3 contains information on the sample day retention time, flow rate and treatment chemicals used and their associated dosages.

Table 4 is a summary break-down of the number of water samples analyzed for by parameter and by water type. The number of times that a positive or trace result was detected is also reported.

Positive denotes that the result is greater than the statistical limit of detection established by the Ministry of the Environment (MOE) laboratory staff and is quantifiable. Trace (<T) denotes that the level measured is greater than the lowest value detectable by the method but lies so close to the detection limit that it cannot be confidently quantified.

Table 5 presents the results for parameters detected on at least one occasion.

Table 6 lists all parameters analyzed in the DWSP.

Associated guidelines and detection limits are also supplied on both tables. Parameters are listed alphabetically within each scan.

DISCUSSION

General

Water quality is judged by comparison with the Ontario Drinking Water Objectives (ODWOs) as defined in the 1984 publication (ISBN 0-7743-8985-0). The Province of Ontario has health related and aesthetic objectives for 49 parameters, these are currently under review. When an ODWO is not available guidelines/limits from other agencies are consulted. The Parameters Listing System (PALIS) recently published (ISBN 0-7729-4461-X) by the MOE catalogues and keeps current over 1750 guidelines for 650 parameters from agencies throughout the world.

Many of the compounds detected are naturally occurring or are treatment by-products.

IN THIS REPORT, DISCUSSION IS LIMITED TO THE TREATED AND DISTRIBUTED WATER AND ADDRESSES ONLY THOSE PARAMETERS WITH CONCENTRATIONS ABOVE GUIDELINE VALUES AND ORGANICS WITH DETECTED POSITIVE RESULTS.

Results for treated and distributed water indicate that no applicable health related guidelines were exceeded.

Inorganic and Physical Parameters

Aluminum

The plant operational guideline of 100 $\mu\text{g/L}$ as Al in the water leaving the plant was exceeded six times in the treated water.

Organic Parameters

Trihalomethanes

Trihalomethanes (THMs) are acknowledged to be produced during the water treatment process and will always occur in chlorinated waters. THMs are comprised of Chloroform, Chlorodibromomethane and Dichlorobromomethane. Bromoform occurs occasionally. Results are reported for the individual compounds as well as for total THMs. All Total THM occurrences, ranging from 31.2 to 59.3 $\mu\text{g/L}$, were well below the ODWO of 350 $\mu\text{g/L}$.

CONCLUSIONS

The South Peel (Lorne Park) Water Supply System for the sample year of 1989 produced good quality water at the plant and this was maintained in the distribution system.

No health related guidelines for organic or inorganic parameters, were exceeded during 1989.

Comparison with the DWSP results from previous years confirms the good quality of the water produced at the plant.

TABLE 3

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) USS SAMPLE DAY CONDITIONS FO 1969

SAMPLE DAY CONDITIONS			TREATMENT CHEMICAL DOSAGES (MG/L)			
DATE	DELAY* TIME(HRS)	FLOW (1000G3)	PRE-CHLORINATION		COAGULATION	
			CHLORINE	FLUORIDATION HYDROFLUOSILICIC ACID	ALUM LIQUID	
JAN 10	3.0	100.0	3.40	1.10	5.90	
FEB 14	3.0	140.0	2.00	1.10	4.50	
MAR 14	3.5	115.0	2.80	1.20	4.40	
APR 11	3.0	130.0	2.60	1.30	8.70	
MAY 09	3.7	147.0	4.50	1.00	6.00	
JUN 13	3.0	140.0	2.60	1.40	5.30	
JUL 24	3.0	216.0	3.40	1.20	7.60	
AUG 15	2.1	165.0	2.50	1.06	4.60	
SEP 12	2.2	198.3	3.20	1.15	6.00	
OCT 11	2.3	161.0	2.40	1.20	5.60	
NOV 15	3.0	88.0	2.70	1.20	5.60	
DEC 12	2.5	105.0	2.50	1.20	5.80	

* THE DELAY TIME BETWEEN THE RAW AND TREATED WATER SAMPLING, SHOULD ESTIMATE THE RETENTION TIME.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM LORNE PARK

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	RAW		TREATED		SITE 1	
		TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE
BACTERIOLOGICAL	FECAL COLIFORM MF	12	9	0	.	.	.
	STANDARD PLATE CMT MF	.	.	12	1	0	11
	TOTAL COLIFORM MF	12	10	0	12	1	0
	T COLIFORM BCKGRD MF	12	12	0	12	4	0
*TOTAL SCAN BACTERIOLOGICAL		36	31	0	36	6	0
*TOTAL GROUP BACTERIOLOGICAL		36	31	0	36	6	0
CHEMISTRY (FLD)	FLD CHLORINE (COMB)	.	.	.	12	12	0
	FLD CHLORINE FREE	.	.	.	12	12	0
	FLD CHLORINE (TOTAL)	.	.	.	12	12	0
	FLD PH	12	12	0	12	12	0
	FLD TEMPERATURE	12	12	0	12	12	0
	FLD TURBIDITY	12	12	0	12	12	0
*TOTAL SCAN CHEMISTRY (FLD)		36	36	0	72	72	0
CHEMISTRY (LAB)	ALKALINITY	12	12	0	12	12	0
	CALCIUM	12	12	0	12	12	0
	CYANIDE	12	0	0	12	0	0
	CHLORIDE	12	12	0	12	12	0
	COLOUR	12	4	8	12	0	10
	CONDUCTIVITY	12	12	0	12	12	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM LORNE PARK

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	RAW TOTAL POSITIVE TRACE	TREATED TOTAL POSITIVE TRACE	SITE 1 TOTAL POSITIVE TRACE
CHEMISTRY (LAB)				
	FLUORIDE	12	12	21
	HARDNESS	12	12	22
	IONCAL	12	12	22
	LANGLIERS INDEX	12	12	22
	MAGNESIUM	12	12	22
	SODIUM	12	12	22
	AMMONIUM TOTAL	12	12	22
	NITRITE	12	12	4
	TOTAL NITRATES	12	12	0
	NITROGEN TOT KJELD	12	12	22
	PH	12	12	22
	PHOSPHORUS FIL REACT	12	12	22
	PHOSPHORUS TOTAL	12	12	0
	SULPHATE	12	12	22
	TURBIDITY	12	12	18
*TOTAL SCAN CHEMISTRY (LAB)		252	252	330
		213	21	42
		181	42	406
		42	42	42
METALS				
	SILVER	12	12	0
	ALUMINIUM	12	12	22
	ARSENIC	12	12	22
	BARIUM	12	12	12
	BORON	12	12	22
	BERYLLIUM	12	12	0
		12	12	14

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM LORNE PARK

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	RAW		TREATED		SITE 1	
		TOTAL POSITIVE	TRACE	TOTAL POSITIVE	TRACE	TOTAL POSITIVE	TRACE
METALS	CADMIUM	12	0	3	12	0	3
	COBALT	12	0	12	12	0	11
	CHROMIUM	12	9	3	12	9	3
	COPPER	12	12	0	12	11	1
	IRON	12	1	10	12	0	7
	MERCURY	10	3	1	11	4	0
	MANGANESE	12	11	1	12	9	3
	MOLYBDENUM	12	12	0	12	12	0
	NICKEL	12	3	8	12	2	9
	LEAD	12	9	3	12	3	8
	ANTIMONY	12	12	0	12	12	0
	SELENIUM	12	0	7	12	0	8
	STRONTIUM	12	12	0	12	12	0
	TITANIUM	12	11	1	12	11	1
	THALLIUM	12	0	7	12	0	9
	URANIUM	12	11	1	12	11	1
	VANADIUM	12	1	11	12	6	6
	ZINC	12	12	0	12	11	1
		286	164	83	287	156	85
		574	413	104	611	409	127
*TOTAL SCAN METALS						516	297
*TOTAL GROUP INORGANIC & PHYSICAL						1054	759
CHLOROCARBOCATICS	HEXACHLOROBUTADIENE	12	0	0	12	0	11
	123 TRICHLOROBENZENE	12	0	0	12	0	11
						0	0
						0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM LORNE PARK

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	RAW		TREATED		SITE 1	
		TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE
CHLOROAROMATICS	1234 T-CHLOROBENZENE	12	0	0	12	0	11
	1235 T-CHLOROBENZENE	12	0	0	12	0	11
	124 TRICHLOROBENZENE	12	0	0	12	0	11
	1245 T-CHLOROBENZENE	12	0	0	12	0	11
	135 TRICHLOROBENZENE	12	0	0	12	0	11
	HCB	12	0	0	12	0	11
	HEXACHLOROETHANE	12	0	0	12	0	11
	OCTACHLOROSTYRENE	12	0	0	12	0	11
	PENTACHLOROBENZENE	12	0	0	12	0	11
	236 TRICHLOROTOLUENE	12	0	0	12	0	11
	245 TRICHLOROTOLUENE	12	0	0	12	0	11
	26A TRICHLOROTOLUENE	12	0	0	12	0	11
*TOTAL SCAN CHLOROAROMATICS		168	0	0	168	0	154
CHLOROPHENOLS	234 TRICHLOROPHENOL	2	0	0	2	0	0
	2345 T-CHLOROPHENOL	2	0	0	2	0	0
	2356 T-CHLOROPHENOL	2	0	0	2	0	0
	245-TRICHLOROPHENOL	2	0	0	2	0	0
	246-TRICHLOROPHENOL	2	0	0	2	0	0
	PENTACHLOROPHENOL	2	0	0	2	0	0
*TOTAL SCAN CHLOROPHENOLS		12	0	0	12	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM LORNE PARK

SUMMARY TABLE OF RESULTS (1989)

SCAM	PARAMETER	RAW		TREATED		SITE 1	
PAH		TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE
	PHENANTHRENE	11	0	0	12	0	0
	ANTHRACENE	10	0	0	11	0	0
	FLUORANTHENE	11	0	0	12	0	0
	PYRENE	11	0	0	12	0	0
	BENZO(A)ANTHRACENE	11	0	0	12	0	0
	CHRYSENE	11	0	0	12	0	0
	DIMETH. BENZ(A)ANTHR	6	0	0	12	0	0
	BENZO(E) PYRENE	11	0	0	12	0	0
	BENZO(B) FLUORANTHENE	11	0	0	12	0	0
	PERYLENE	11	0	0	12	0	0
	BENZO(K) FLUORANTHENE	11	0	0	12	0	0
	BENZO(A) PYRENE	6	0	0	12	0	0
	BENZO(G,H,I) PERYLENE	11	0	0	12	0	0
	DIBENZO(A,H) ANTHRAC	11	0	0	12	0	0
	INDENO(1,2,3-C,D) PY	11	0	0	12	0	0
	BENZO(B) CHRYSENE	11	0	0	12	0	0
	CORONENE	11	0	0	12	0	0
*TOTAL SCAM PAH		176	0	0	191	0	0
PESTICIDES & PCB	ALDRIN	12	0	0	12	0	11
	ALPHA BHC	12	0	7	12	0	8
	BETA BHC	12	0	0	12	0	11
	LINDANE	12	0	1	12	0	11
						0	3

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM L'ORNE PARK

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	RAW		TREATED		SITE 1	
		TOTAL POSITIVE TRACE	TOTAL POSITIVE TRACE	TOTAL POSITIVE TRACE	TOTAL POSITIVE TRACE	TOTAL POSITIVE TRACE	TOTAL POSITIVE TRACE
PESTICIDES & PCB							
	ALPHA CHLORDANE	12	0	0	12	0	11
	GAMMA CHLORDANE	12	0	0	12	0	11
	DIELDRIN	12	0	0	12	0	11
	METHOXYCHLOR	12	0	0	12	0	11
	ENDOSULFAN I	12	0	0	12	0	11
	ENDOSULFAN II	12	0	0	12	0	11
	ENDRIN	12	0	0	12	0	11
	ENDOSULFAN SULPHATE	12	0	0	12	0	11
	HEPTACHLOR EPOXIDE	12	0	0	12	0	11
	HEPTACHLOR	12	0	0	12	0	11
	MIREX	12	0	0	12	0	11
	OXYCHLORDANE	12	0	0	12	0	11
	OPDDT	12	0	0	12	0	11
	PCB	12	0	0	12	0	11
	DDB	12	0	0	12	0	11
	PPDE	12	0	0	12	0	11
	PPDDT	12	0	0	12	0	11
	ANETRINE	10	0	0	11	0	6
	ATRAZINE	10	0	3	11	0	6
	ATRAZONE	10	0	0	11	0	6
	CYANAZINE (BLADEX)	10	0	0	11	0	6
	D-ETHYL ATRAZINE	10	0	0	11	0	6
	D-ETHYL SIMAZINE	10	0	0	11	0	6
	PROMETONE	10	0	0	11	0	6
	PROPACINE	10	0	0	11	0	6

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM LORNE PARK

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	RAW		TREATED		SITE 1	
		TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE
PESTICIDES & PCB	PROMETRYNE	10	0	0	11	0	0
	METRIBUZIN (SENCOR)	10	0	0	11	0	0
	SIMAZINE	10	0	0	11	0	0
	ALACHLOR (LASSO)	10	0	0	11	0	0
	METOLACHLOR	10	0	0	11	0	0
*TOTAL SCAN PESTICIDES & PCB		382	0	11	395	0	11

PHENOLICS	PHENOLICS	12	6	5	12	5	6
*TOTAL SCAN PHENOLICS		12	6	5	12	5	6

SPECIFIC PESTICIDES	TOXAPHENE	12	0	0	12	0	0
	2,4,5-T	2	0	0	2	0	0
	2,4-D	2	0	0	2	0	0
	2,4-DB	2	0	0	2	0	0
	2,4 D PROPTIONIC ACID	2	0	0	2	0	0
	DICAMBA	2	0	0	2	0	0
	PICHLORAM	0	0	0	0	0	0
	SILVEX	2	0	0	2	0	0
	DIAZINON	2	0	0	2	0	0
	DICHLOROVOS	2	0	0	2	0	0
	CHLORPYRIFOS	2	0	0	2	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM LORNE PARK

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	RAW		TREATED		SITE 1	
		TOTAL POSITIVE	TRACE	TOTAL POSITIVE	TRACE	TOTAL POSITIVE	TRACE
SPECIFIC PESTICIDES							
	ETNION	2	0	2	0	0	0
	AZINPHOS-METHYL	1	0	1	0	0	0
	MALATHION	2	0	2	0	0	0
	MEVINPHOS	2	0	2	0	0	0
	METHYL PARATHION	2	0	2	0	0	0
	METHYLTRITHION	2	0	2	0	0	0
	PARATHION	2	0	2	0	0	0
	PHORATE	2	0	2	0	0	0
	RELDAN	2	0	2	0	0	0
	RONNEL	2	0	2	0	0	0
	AMINOCARB	0	0	0	0	0	0
	BENOMYL	1	0	1	0	0	0
	BLX	0	0	0	0	0	0
	CARBOFURAN	2	0	2	0	0	0
	CICP	2	0	2	0	0	0
	DIALATE	2	0	2	0	0	0
	EPTAM	2	0	2	0	0	0
	IPC	2	0	2	0	0	0
	PROPOXUR	2	0	2	0	0	0
	CARBARYL	2	0	2	0	0	0
	BUTYLATE	2	0	2	0	0	0
*TOTAL SCAN SPECIFIC PESTICIDES		66	0	66	0	11	0
VOLATILES							
	BENZENE	12	0	12	0	1	11
							0
							3

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM LORNE PARK

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	RAW		TREATED		SITE 1	
		TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE
VOLATILES							
	TOLUENE	12	0	4	12	0	8
	ETHYLBENZENE	12	0	4	12	0	5
	P-XYLENE	12	0	0	12	0	11
	M-XYLENE	12	0	1	12	0	11
	O-XYLENE	12	0	1	12	0	1
	STYRENE	12	1	9	12	0	2
	1,1 DICHLOROETHYLENE	12	0	0	12	0	2
	METHYLENE CHLORIDE	12	0	0	12	0	11
	1,1,2,2-TETRACHLOROETHYLENE	12	0	0	12	0	11
	1,1 DICHLOROETHANE	12	0	0	12	0	11
	CHLOROFORM	12	0	2	12	12	0
	1,1,1-TRICHLOROETHANE	12	0	3	12	0	11
	1,2 DICHLOROETHANE	12	0	0	12	0	11
	CARBON TETRACHLORIDE	12	0	0	12	0	11
	1,2 DICHLOROPROPANE	12	0	0	12	0	11
	TRICHLOROETHYLENE	12	0	0	12	0	11
	DICHLOROBROMOMETHANE	12	0	1	12	12	0
	1,1,2-TRICHLOROETHANE	12	0	0	12	0	11
	CHLORODIBROMOMETHANE	12	0	0	12	0	11
	T-CHLOROETHYLENE	12	0	0	12	12	0
	BROMOFORM	12	0	0	12	0	1
	1,1,2,2-TETRACHLOROETHANE	12	0	0	12	0	11
	CHLOROBENZENE	12	0	0	12	0	11
	1,4 DICHLOROBENZENE	12	0	0	12	0	11
	1,3 DICHLOROBENZENE	12	0	0	12	0	11

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM LORNE PARK

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	RAW		TREATED		SITE 1	
		TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE	TOTAL	POSITIVE TRACE
VOLATILES	1,2 DICHLOROBENZENE	12	0	0	12	0	0
	ETHYLENE DIBROMIDE	12	0	0	12	0	0
	TOTL TRINALOMETHANES	12	0	0	12	0	0
*TOTAL SCAN VOLATILES		348	1	26	348	48	319
*TOTAL GROUP ORGANIC		1164	7	42	1192	53	793
TOTAL		1774	451	146	1839	468	178
						1880	810
							227

KEY TO TABLE 5 and 6

- A ONTARIO DRINKING WATER OBJECTIVES (ODWO)
1. Maximum Acceptable Concentration (MAC)
 - 1+. MAC for Total Trihalomethanes
 - 1*. MAC for Bacteriological Analyses
- Poor water quality is indicated when :
- total coliform counts > 0 < 5
 - P/A Bottle Test is present after 48 hours
 - Aeromonas organisms are detected in more than 25% of samples in a single submission or in successive submissions from the same sampling site
 - Pseudomonas Aeruginosa, Staphylococcus Aureus and members of the Fecal Streptococcus group should not be detected in any sample
 - Standard Plate Count should not exceed 500 organisms per ml at 35 °C within 48 hours
2. Interim Maximum Acceptable Concentration (IMAC)
 3. Maximum Desirable Concentration (MDC)
 4. Aesthetic or Recommended Operational Guideline
- hardness levels between 80 and 100 mg/L as calcium carbonate are considered to provide an acceptable balance between corrosion and incrustation, water supplies with a hardness >200 mg/L are considered poor and those in excess of 500 mg/L are unacceptable.
- B HEALTH & WELFARE CANADA (H&W)
1. Maximum Acceptable Concentration (MAC)
 2. Proposed MAC
 3. Interim MAC
 4. Aesthetic Objective (AO) (for xylenes, a total)
- C WORLD HEALTH ORGANIZATION (WHO)
1. Guideline Value (GV)
 2. Tentative GV
 3. Aesthetic GV
- D US ENVIRONMENTAL PROTECTION AGENCY (EPA)
1. Maximum Contaminant Level (MCL)
 2. Suggested No-Adverse Effect Level (SNAEL)
 3. Lifetime Health Advisory
 4. EPA Ambient Water Quality Criteria
 5. Maximum Contaminant Level Goal (MCLG)
- F EUROPEAN ECONOMIC COMMUNITY (EEC)
1. Health Related Guideline Level
 2. Aesthetic Guideline Level
 3. Maximum Admissible Concentration (MADC)
- G CALIFORNIA STATE DEPARTMENT OF HEALTH-GUIDELINE VALUE
- H USSR MAXIMUM PERMISSIBLE CONCENTRATION
- I NEW YORK STATE AMBIENT WATER GUIDELINE
- N/A NONE AVAILABLE

INTERPRETATION OF DATA

The interpretation of analytical results that are obtained from measurements near the limit of detection of the measurement process is subject to greater uncertainty than those at higher concentrations. The principle areas of concern relate to whether the substance has actually been detected, whether it has been properly identified, and whether it is an artifact of the measurement process. In other words, false positives can be caused by the instrumentation or the test procedures used, when in fact these compounds are not present in the sample.

There are several methods to treat data from such measurements:

1. Exclude the low-level data because of this uncertainty factor. However, studies of long-term environmental trends and modelling may be adversely affected by exclusion of such data.
2. Qualify these data so the user is aware of the greater uncertainty associated with their use.

For the Drinking Water Surveillance Program, measurements near the limit of detection of the measurement process are reported qualified by the code "<T". Results quantified by "W" indicate a zero measurement. These results are reported for purposes of modelling and long-term trend analysis and no significance should be attributed to a single determination of a substance below "T" (a single determination may well be a false positive). Repeat analysis or additional data are needed before it can be stated with certainty that the substance in question was truly present. On the other hand, it is less likely that repeated detection of a substance at or near the limit of detection at a specific location is solely due to an artifact in the measurement system, and more likely represents a true positive. However the average of such data is still only an estimate of the amount of substance present subject to the possible biases of the method used.

LABORATORY RESULTS, REMARK DESCRIPTIONS

.	No Sample Taken
BDL	Below Minimum Measurable Amount
<T	Greater Than Detection Limit But Not Confident (SEE INTERPRETATION OF RESULTS ABOVE)
>	Results Are Greater Than The Upper Limit
<=>	Approximate Result
!AW	No Data: Analysis Withdrawn
!CR	No Data: Could Not Confirm By Reanalysis
!CS	No Data: Contamination Suspected
!IL	No Data: Sample Incorrectly Labelled
!IP	No Data: Insufficient Preservative
!IS	No Data: Insufficient Sample

!LA	No Data: Laboratory Accident
!LD	No Data: Test Queued After Sample Discarded
!NA	No Data: No Authorization To Perform Reanalysis
!NP	No Data: No Procedure
!NR	No Data: Sample Not Received
!OP	No Data: Obscured Plate
!QU	No Data: Quality Control Unacceptable
!PE	No Data: Procedural Error - Sample Discarded
!PH	No Data: Sample pH Outside Valid Range
!RE	No Data: Received Empty
!RO	No Data: See Attached Report (no numeric results)
!SM	No Data: Sample Missing
!SS	No Data: Send Separate Sample Properly Preserved
!UI	No Data: Indeterminant Interference
!TX	No Data: Time Expired
A3C	Approximate, Total Count Exceeded 300 Colonies
APL	Additional Peak, Large, Not Priority Pollutant
APS	Additional Peak, Less Than, Not Priority Pollutant
CIC	Possible Contamination, Improper Cap
CRO	Calculated Result Only
PPS	Test Performed On Preserved Sample
RMP	P and M-Xylene Not Separated
RRV	Rerun Verification
RVU	Reported Value Unusual
SPS	Several Peaks, Small, Not Priority Pollutant
UCR	Unreliable: Could Not Confirm By Reanalysis
UCS	Unreliable: Contamination Suspected
UIN	Unreliable: Indeterminant Interference
XP	Positive After X Number of Hours
T# (T06)	Result Taken After # Hours

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) WSS 1989

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

RAW	TREATED	SITE 1	
		STANDING	FREE FLOW

BACTERIOLOGICAL

FECAL COLIFORM MF (CT/100ML)

DET'M LIMIT = 0

GUIDELINE = 0 (A1)

JAN	12 T06	.	.	.
FEB	8 T24	.	.	.
MAR	BDL	.	.	.
APR	0 T24	.	.	.
MAY	0	.	.	.
JUN	2	.	.	.
JUL	14	.	.	.
AUG	25	.	.	.
SEP	11	.	.	.
OCT	8	.	.	.
NOV	6	.	.	.
DEC	67	.	.	.

STANDRD PLATE CNT MF ()

DET'M LIMIT = 0

GUIDELINE = 500/ML (A1)

JAN	.	0 <=>	.	3 <=>
FEB	.	0 <=>	.	25 T24
MAR	.	0 <=>	.	0 <=>
APR	.	2 <=>	.	2 <=>
MAY	.	0 <=>	.	0 <=>
JUN	.	1 <=>	.	0 <=>
JUL	.	0 <=>	.	.
AUG	.	0 <=>	.	0 <=>
SEP	.	1 <=>	.	80
OCT	.	0 <=>	.	0 <=>
NOV	.	14	.	0 <=>
DEC	.	1 <=>	.	0 <=>

TOTAL COLIFORM MF (CT/100ML)

DET'M LIMIT = 0

GUIDELINE = 5/100ML(A1)

JAN	1180 A3C	0 T06	.	0 T06
FEB	84 T24	0 T24	.	1 T24
MAR	28 T24	0 T24	.	0 T24
APR	16 T24	0 T24	.	0 T24
MAY	24	0	.	0
JUN	28	0	.	0
JUL	80 <=>	0	.	.
AUG	280	1	.	0
SEP	48 A3C	0	.	0
OCT	50 <=>	0	.	0
NOV	140	0	.	0
DEC	1120	0	.	0

T COLIFORM BCKGRD MF (CT/100ML)

DET'M LIMIT = 0

GUIDELINE = N/A

JAN	8200 A3C	2 T06	.	1 T06
FEB	204 T24	0 T24	.	3 T24
MAR	384 T24	0 T24	.	0 T24

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) WSS 1989

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
APR	184 T24	0 T24	.	0 T24
MAY	1040	2	.	0
JUN	416	0	.	1
JUL	48000 >	0	.	.
AUG	5000	1	.	0
SEP	7600 A3C	0	.	0
OCT	910	1	.	1
NOV	760	0	.	0
DEC	3400	0	.	0

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) WSS 1989

WATER TREATMENT PLANT DISTRIBUTION SYSTEM

RAW		TREATED		SITE 1	
		STANDING		FREE FLOW	

CHEMISTRY (FLD)					
FLD CHLORINE (COMB) ()		DET'N LIMIT = N/A		GUIDELINE = N/A	
JAN	.300	.300	.300		
FEB	.220	.200	.200		
MAR	.240	.200	.200		
APR	.200	.100	.200		
MAY	.300	.300	.200		
JUN	.290	.200	.200		
JUL	.300	.	.		
AUG	.200	.100	.200		
SEP	.310	.200	.200		
OCT	.200	.300	.300		
NOV	.100	.100	.200		
DEC	.100	.200	.200		

FLD CHLORINE FREE ()		DET'N LIMIT = N/A		GUIDELINE = N/A	
JAN	.900	.400	.600		
FEB	.820	.400	.600		
MAR	.740	.300	.500		
APR	.950	.200	.500		
MAY	.900	.700	.500		
JUN	.560	.500	.700		
JUL	.700	.	.		
AUG	.650	.300	.400		
SEP	.760	.300	.500		
OCT	.880	.400	.600		
NOV	.900	.300	.400		
DEC	.850	.500	.700		

FLD CHLORINE (TOTAL) ()		DET'N LIMIT = N/A		GUIDELINE = N/A	
JAN	1.200	.700	.900		
FEB	1.040	.600	.800		
MAR	.980	.500	.700		
APR	1.150	.300	.700		
MAY	1.200	1.000	.700		
JUN	.850	.700	.900		
JUL	1.000	.	.		
AUG	.850	.400	.600		
SEP	1.070	.500	.700		
OCT	1.080	.700	.900		
NOV	1.000	.400	.600		
DEC	.950	.700	.900		

FLD PH (DMNSLESS)		DET'N LIMIT = N/A		GUIDELINE = 6.5-8.5(A4)	
JAN	7.500	7.300	7.400	7.400	
FEB	7.720	7.340	7.400	7.400	
MAR	7.610	7.280	7.400	7.400	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) WSS 1989

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
APR	7.940	7.410	7.400	7.400
MAY	8.010	7.450	7.600	7.600
JUN	7.600	7.200	7.700	7.700
JUL	7.600	7.300	.	.
AUG	7.990	7.400	7.400	7.400
SEP	7.640	7.320	7.600	7.600
OCT	7.400	7.050	7.400	7.400
NOV	7.500	7.200	7.400	7.400
DEC	7.300	7.200	7.400	7.400
FLD TEMPERATURE (DEG.C)			DET'N LIMIT = N/A	GUIDELINE = 15 (A1)
JAN	8.000	8.000	15.000	8.000
FEB	8.000	7.000	14.000	7.000
MAR	6.000	7.000	15.000	6.000
APR	8.000	6.000	15.000	7.000
MAY	9.000	9.000	14.000	8.000
JUN	9.000	9.000	10.000	14.000
JUL	20.000	20.000	.	.
AUG	16.000	17.000	17.000	11.000
SEP	18.000	16.000	19.000	17.000
OCT	10.000	9.000	14.000	11.000
NOV	10.000	10.000	13.000	11.000
DEC	8.000	8.000	13.000	8.000
FLD TURBIDITY (FTU)			DET'N LIMIT = N/A	GUIDELINE = 1.0 (A1)
JAN	4.000	.150	.420	.430
FEB	.760	.140	.250	.500
MAR	1.000	.110	.250	.400
APR	1.000	.200	.420	.200
MAY	.840	.200	.340	.350
JUN	.800	.170	.400	.430
JUL	1.000	.220	.	.
AUG	1.600	.410	.430	.320
SEP	1.000	.170	.500	.290
OCT	.700	.140	.250	.340
NOV	1.000	.150	.300	.360
DEC	.900	.160	.170	.250

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) WSS 1989

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW

CHEMISTRY (LAB)				
ALKALINITY (MG/L)			DET'N LIMIT = .200	GUIDELINE = 30-500 (A4)
JAN	104.800	100.800	100.700	101.100
FEB	102.100	99.200	99.200	99.300
MAR	99.400	95.400	95.900	95.900
APR	100.300	95.800	96.300	96.300
MAY	103.700	99.200	98.000	98.500
JUN	98.500	94.700	96.700	96.200
JUL	101.500	97.800	.	.
AUG	102.200	98.800	98.300	98.600
SEP	98.800	95.100	93.900	94.200
OCT	102.500	98.900	98.400	98.500
NOV	103.100	100.000	99.700	99.400
DEC	102.800	98.900	99.000	98.600

CALCIUM (MG/L)			DET'N LIMIT = .100	GUIDELINE = 100 (F2)
JAN	38.000	39.000	42.600	40.600
FEB	40.600	39.400	40.000	39.600
MAR	41.000	40.800	40.600	41.000
APR	38.600	38.600	39.600	39.800
MAY	39.800	40.600	40.400	40.400
JUN	41.600	42.200	40.200	41.200
JUL	36.400	36.600	.	.
AUG	34.600	35.400	42.200	42.200
SEP	38.600	38.200	38.400	37.800
OCT	39.800	40.600	41.500	42.900
NOV	42.000	41.600	42.000	42.200
DEC	42.400	41.800	42.200	42.600

CHLORIDE (MG/L)			DET'N LIMIT = .200	GUIDELINE = 250 (A3)
JAN	28.400	30.500	32.400	31.900
FEB	23.800	25.500	25.800	26.000
MAR	28.400	29.900	30.500	30.200
APR	25.100	26.600	27.600	27.600
MAY	25.200	27.600	28.100	27.800
JUN	23.600	25.100	25.500	25.500
JUL	22.900	25.000	.	.
AUG	24.000	25.500	26.800	26.700
SEP	22.500	24.300	25.200	24.700
OCT	22.700	24.400	24.100	24.500
NOV	23.000	24.900	25.000	25.000
DEC	23.900	25.400	25.600	25.400

COLOUR (NZU)			DET'N LIMIT = .5	GUIDELINE = 5.0 (A3)
JAN	2.000 <T	.500 <T	1.000 <T	.500 <T
FEB	1.500 <T	BDL	BDL	BDL
MAR	2.500	1.000 <T	1.000 <T	1.000 <T

WATER TREATMENT PLANT

RAW		TREATED		SITE 1	
				STANDING	FREE FLOW
APR	2.500	1.000 <T	1.000 <T	1.000 <T	1.000 <T
MAY	2.500	1.000 <T	1.000 <T	1.000 <T	1.000 <T
JUN	2.000 <T	1.000 <T	1.000 <T	1.000 <T	2.500
JUL	2.000 <T	1.000 <T	.	.	.
AUG	2.500	1.000 <T	.500 <T	.500 <T	.500 <T
SEP	2.000 <T	.500 <T	1.000 <T	1.000 <T	1.000 <T
OCT	2.000 <T	.500 <T	1.000 <T	1.000 <T	1.000 <T
NOV	1.500 <T	.500 <T	.500 <T	.500 <T	.500 <T
DEC	1.500 <T	BOL	.500 <T	BOL	BOL

CONDUCTIVITY (UMHO/CM)			DET'N LIMIT = 1		GUIDELINE = 400 (F2)
JAN	352	363	370	369	
FEB	331	336	338	339	
MAR	349	356	360	359	
APR	341	349	353	353	
MAY	338	346	348	350	
JUN	327	333	337	335	
JUL	328	338	.	.	
AUG	331	336	346	345	
SEP	316	325	329	326	
OCT	333	339	337	336	
NOV	331	341	341	341	
DEC	331	338	339	338	

FLUORIDE (MG/L)			DET'N LIMIT = .01		GUIDELINE = 2.400 (A1)
JAN	.180	.900	.880	.900	
FEB	.140	.980	1.020	1.020	
MAR	.200	1.260	1.360	1CR	
APR	.140	.800	.800	.800	
MAY	.140	.940	.980	.980	
JUN	.120	.980	.980	.960	
JUL	.140	1.000	.	.	
AUG	.120	.960	.960	.960	
SEP	.120	1.100	1.000	1.000	
OCT	.120	.900	1.000	1.020	
NOV	.140	.900	.680	.700	
DEC	.080	.880	.940	.860	

HARDNESS (MG/L)			DET'N LIMIT = .500		GUIDELINE = 80-100 (A4)
JAN	132.000	136.000	143.000	138.000	
FEB	137.000	134.000	136.000	134.000	
MAR	135.000	135.000	135.000	136.000	
APR	130.000	130.000	133.000	133.000	
MAY	133.000	137.000	136.000	136.000	
JUN	140.000	142.000	137.000	140.000	
JUL	125.000	126.000	.	.	
AUG	120.000	122.000	141.000	140.000	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) WSS 1989

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
SEP	131.000	130.000	130.000	128.000
OCT	134.000	136.000	137.700	142.400
NOV	141.000	141.000	141.000	141.000
DEC	142.000	141.000	141.000	143.000
IONCAL (DMMSLESS)			DET'N LIMIT = N/A	GUIDELINE = N/A
JAN	6.539	2.563	.546	1.846
FEB	.841	1.210	1.352	3.505
MAR	.433	1.264	.873	1.006
APR	2.618	1.175	.540	.439
MAY	3.625	.075	.572	.682
JUN	4.186	6.291	2.276	4.518
JUL	5.438	6.553	.	.
AUG	10.870	7.552	2.651	3.156
SEP	1.306	1.045	1.066	1.517
OCT	1.499	1.282	2.157	4.922
NOV	.235	.483	.864	.451
DEC	2.166	1.684	2.815	3.443
LANGELIERS INDEX (DMMSLESS)			DET'N LIMIT = N/A	GUIDELINE = N/A
JAN	.264	.137	.174	.175
FEB	.393	.247	.274	.310
MAR	.384	.303	.253	.228
APR	.443	.412	.425	.407
MAY	.471	.489	.472	.474
JUN	.279	.397	.245	.383
JUL	.534	.509	.	.
AUG	.354	.399	.402	.463
SEP	.418	.306	.373	.408
OCT	.486	.419	.386	.471
NOV	.412	.314	.507	.367
DEC	.425	.401	.466	.498
MAGNESIUM (MG/L)			DET'N LIMIT = .050	GUIDELINE = 30 (F2)
JAN	9.000	9.300	8.800	8.800
FEB	8.800	8.600	8.700	8.600
MAR	8.000	8.200	8.200	8.200
APR	8.200	8.300	8.300	8.300
MAY	8.200	8.600	8.400	8.400
JUN	8.800	8.900	8.800	8.900
JUL	8.400	8.400	.	.
AUG	8.300	8.200	8.600	8.400
SEP	8.500	8.400	8.300	8.300
OCT	8.500	8.500	8.250	8.550
NOV	8.700	8.900	8.700	8.600
DEC	8.800	8.800	8.800	8.800

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) WSS 1989

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

RAW		TREATED		SITE 1	
		STANDING		FREE FLOW	
SODIUM (MG/L)				DET'N LIMIT = .200	
				GUIDELINE = 200 (C3)	
JAN	15.000	16.800	17.600	18.000	
FEB	12.200	13.000	13.000	13.000	
MAR	15.400	16.800	17.400	17.000	
APR	12.800	14.400	14.600	14.400	
MAY	13.000	15.000	15.800	16.000	
JUN	13.200	14.000	14.000	14.200	
JUL	12.400	12.400	.	.	
AUG	13.000	14.800	14.800	15.000	
SEP	11.800	13.200	13.400	13.400	
OCT	12.400	13.600	13.400	13.700	
NOV	12.000	13.400	13.200	13.000	
DEC	12.800	14.000	14.200	14.000	
AMMONIUM TOTAL (MG/L)				DET'N LIMIT = 0.002	
				GUIDELINE = .05 (F2)	
JAN	.072	.006 <T	.012	.008 <T	
FEB	.012	BDL	.002 <T	BDL	
MAR	.040	BDL	.004 <T	.002 <T	
APR	.024	.016	.004 <T	.004 <T	
MAY	.068	.004 <T	.006 <T	.002 <T	
JUN	.024	BDL	BDL	BDL	
JUL	.050	.010	.	.	
AUG	.024	.002 <T	BDL	BDL	
SEP	.020	BDL	.014	BDL	
OCT	.008	.002	.002	.004	
NOV	.096	.072	.004 <T	.002 <T	
DEC	.002 <T	BDL	BDL	BDL	
NITRITE (MG/L)				DET'N LIMIT = 0.001	
				GUIDELINE = 1.000 (A1)	
JAN	.042	.001 <T	.001 <T	BDL	
FEB	.002 <T	BDL	.001 <T	BDL	
MAR	.004 <T	BDL	BDL	BDL	
APR	.003 <T	BDL	.001 <T	.001 <T	
MAY	.008	.002 <T	.001 <T	.001 <T	
JUN	.003 <T	BDL	.003 <T	.003 <T	
JUL	.032	.003 <T	.	.	
AUG	.019	.003 <T	.001 <T	.001 <T	
SEP	.008	.002 <T	BDL	BDL	
OCT	.002 <T	BDL	BDL	BDL	
NOV	.014	.009	BDL	BDL	
DEC	.003 <T	BDL	BDL	BDL	
TOTAL NITRATES (MG/L)				DET'N LIMIT = .020	
				GUIDELINE = 10.000 (A1)	
JAN	.495	.465	.475	.480	
FEB	.390	.390	.395	.400	
MAR	.435	.415	.420	.420	
APR	.360	.370	.395	.385	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) WSS 1989

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
MAY	.150	.150	.150	.150
JUN	.370	.370	.345	.335
JUL	.295	.265	.	.
AUG	.365	.380	.385	.370
SEP	.260	.255	.295	.255
OCT	.455	.455	.450	.450
NOV	.630	.610	.430	.410
DEC	.425	.420	.415	.410

NITROGEN TOT KJELD (MG/L)			DET'M LIMIT = .020	GUIDELINE = N/A
JAN	.360	.160	.260	.160
FEB	.180	.130	.140	.130
MAR	.310	.180	.230	.190
APR	.240	.160	.200	.170
MAY	.310	.220	.250	.190
JUN	.290	.160	.190	.180
JUL	.330	.220	.	.
AUG	.300	.180	.200	.190
SEP	.260	.170	.270	.190
OCT	.190	.120	.150	.150
NOV	.210	.070 <T	.130	.160
DEC	.220	.190	.150	.140

PH (DIMENSIONLESS)			DET'M LIMIT = N/A	GUIDELINE = 6.5-8.5(A4)
JAN	8.110	7.990	7.990	8.010
FEB	8.220	8.100	8.120	8.160
MAR	8.220	8.160	8.110	8.080
APR	8.300	8.290	8.290	8.270
MAY	8.300	8.330	8.320	8.320
JUN	8.110	8.240	8.100	8.230
JUL	8.410	8.400	.	.
AUG	8.250	8.300	8.230	8.290
SEP	8.280	8.190	8.260	8.300
OCT	8.320	8.260	8.220	8.290
NOV	8.220	8.140	8.330	8.190
DEC	8.230	8.230	8.290	8.320

PHOSPHORUS FIL REACT (MG/L)			DET'M LIMIT = .0005	GUIDELINE = N/A
JAN	.006	.001 <T	.	.
FEB	.004	.001 <T	.	.
MAR	.000 <T	.000 <T	.	.
APR	BDL	BDL	.	.
MAY	.000	.000	.	.
JUN	BDL	.000 <T	.	.
JUL	.001 <T	BDL	.	.
AUG	BDL	.000 <T	.	.
SEP	BDL	.000 <T	.	.

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) VSS 1989

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
OCT	BDL	.000 <T	.	.
NOV	.001 <T	.001 <T	.	.
DEC	.001 <T	.001 <T	.	.
PHOSPHORUS TOTAL (MG/L)			DET'N LIMIT = .002	
			GUIDELINE = .40 (F2)	
JAN	.021	.002 <T	.	.
FEB	.013	.006 <T	.	.
MAR	.013	.003 <T	.	.
APR	.010	.003 <T	.	.
MAY	.009 <T	.005 <T	.	.
JUN	.013	.008 <T	.	.
JUL	.016	.005 <T	.	.
AUG	.016	.007 <T	.	.
SEP	.010	.006 <T	.	.
OCT	.009 <T	.002 <T	.	.
NOV	.011	BDL	.	.
DEC	.012	.004 <T	.	.
SULPHATE (MG/L)			DET'N LIMIT = .200	
			GUIDELINE = 500. (A3)	
JAN	27.760	29.880	30.530	30.910
FEB	27.290	26.310	27.970	29.560
MAR	27.430	29.670	29.780	30.090
APR	24.120	27.940	27.820	27.760
MAY	26.540	29.310	29.390	29.540
JUN	27.790	29.520	28.210	28.410
JUL	24.910	27.720	.	.
AUG	26.570	28.600	29.710	38.740
SEP	26.510	28.780	29.150	28.850
OCT	26.430	27.680	27.980	28.130
NOV	27.720	30.470	30.110	30.820
DEC	27.110	30.640	29.840	30.050
TURBIDITY (FTU)			DET'N LIMIT = .02	
			GUIDELINE = 1.00 (A1)	
JAN	8.400	.270	.880	.700
FEB	.950	.300	.190 <T	.580
MAR	2.100	.430	.220 <T	.080 <T
APR	2.100	.370	.570	.470
MAY	.760	.200 <T	.410	.200 <T
JUN	2.100	.710	.640	.520
JUL	2.200	.210 <T	.	.
AUG	1.600	.300	.720	.770
SEP	1.930	.410	.660	.650
OCT	.750	.160 <T	.410	.310
NOV	1.590	.300	.280	.140
DEC	1.520	.360	.560	.310

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) WSS 1989

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

RAW		TREATED		SITE 1	
				STANDING	FREE FLOW
METALS					
SILVER (UG/L)		DET'M LIMIT = .020 GUIDELINE = 50. (A1)			
JAN	.040 <T	BDL	.030 <T	BDL	
FEB	BDL	BDL	BDL	BDL	
MAR	.030 <T	.080 <T	.070 <T	.050 <T	
APR	.040 <T	.060 <T	.110 <T	.050 <T	
MAY	BDL	BDL	BDL	BDL	
JUN	BDL	BDL	BDL	BDL	
JUL	BDL	BDL	.	.	
AUG	.040 <T	BDL	BDL	.040 <T	
SEP	BDL	BDL	.040 <T	BDL	
OCT	BDL	BDL	BDL	BDL	
NOV	BDL	BDL	BDL	BDL	
DEC	BDL	BDL	BDL	BDL	
ALUMINUM (UG/L)		DET'M LIMIT = .050 GUIDELINE = 100.(A4)			
JAN	197.200	73.080	67.280	75.400	
FEB	16.240	90.480	89.320	91.640	
MAR	22.040	83.520	74.240	75.400	
APR	20.880	102.080	96.280	97.440	
MAY	3.132	116.000	127.600	127.600	
JUN	11.000	130.000	140.000	140.000	
JUL	33.000	280.000	.	.	
AUG	40.000	200.000	150.000	150.000	
SEP	18.000	200.000	200.000	160.000	
OCT	16.000	89.000	87.000	93.000	
NOV	20.000	100.000	93.000	82.000	
DEC	19.000	91.000	80.000	82.000	
ARSENIC (UG/L)		DET'M LIMIT = 0.050 GUIDELINE = 50.0 (A1)			
JAN	1.400	.870 <T	.660 <T	.780 <T	
FEB	1.300	1.400	1.300	1.100	
MAR	1.500	1.100	1.100	1.100	
APR	1.100	.750 <T	.940 <T	.760 <T	
MAY	1.300	1.400	1.200	1.300	
JUN	1.900	1.700	1.600	1.400	
JUL	1.600	1.700	.	.	
AUG	1.600	1.700	1.300	1.200	
SEP	1.400	1.500	1.500	1.200	
OCT	.880 <T	.840 <T	.790 <T	.930 <T	
NOV	.810 <T	.740 <T	.580 <T	.620 <T	
DEC	.820 <T	.360 <T	.500 <T	.510 <T	
BARIUM (UG/L)		DET'M LIMIT = 0.020 GUIDELINE = 1000. (A1)			
JAN	26.000	24.000	24.000	24.000	
FEB	26.000	24.000	23.000	24.000	
MAR	24.000	23.000	22.000	22.000	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) WSS 1989

WATER TREATMENT PLANT		DISTRIBUTION SYSTEM		
	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
APR	24.000	23.000	23.000	24.000
MAY	24.000	24.000	24.000	24.000
JUN	23.000	23.000	23.000	23.000
JUL	26.000	25.000	.	.
AUG	25.000	26.000	26.000	25.000
SEP	23.000	23.000	27.000	22.000
OCT	23.000	24.000	23.000	24.000
NOV	25.000	24.000	25.000	25.000
DEC	22.000	21.000	21.000	22.000
BODIUM (UG/L)				
DET'N LIMIT = 0.200 GUIDELINE = 5000. (A1)				
JAN	55.000	50.000	27.000	29.000
FEB	72.000	64.000	27.000	46.000
MAR	39.000	31.000	64.000	38.000
APR	53.000	40.000	64.000	170.000
MAY	99.000	160.000	70.000	53.000
JUN	38.000	35.000	41.000	40.000
JUL	50.000	44.000	.	.
AUG	57.000	54.000	53.000	32.000
SEP	50.000	29.000	50.000	35.000
OCT	24.000	36.000	26.000	33.000
NOV	28.000	28.000	27.000	31.000
DEC	27.000	26.000	27.000	26.000
BERYLLIUM (UG/L)				
DET'N LIMIT = 0.010 GUIDELINE = N/A				
JAN	BDL	BDL	BDL	BDL
FEB	.070 <T	.090 <T	.030 <T	.030 <T
MAR	.020 <T	BDL	.190 <T	.050 <T
APR	.070 <T	.050 <T	.210 <T	.360 <T
MAY	.050 <T	.110 <T	.020 <T	BDL
JUN	.030 <T	.040 <T	.120 <T	.100 <T
JUL	BDL	BDL	.	.
AUG	.100 <T	.150 <T	.140 <T	.040 <T
SEP	.060 <T	.060 <T	.070 <T	BDL
OCT	.020 <T	.030 <T	BDL	BDL
NOV	BDL	BDL	.030 <T	.030 <T
DEC	BDL	BDL	BDL	BDL
CADMIUM (UG/L)				
DET'N LIMIT = 0.050 GUIDELINE = 5.000 (A1)				
JAN	BDL	BDL	BDL	.060 <T
FEB	BDL	BDL	.100 <T	BDL
MAR	.100 <T	.090 <T	BDL	BDL
APR	BDL	BDL	.080 <T	BDL
MAY	BDL	BDL	.090 <T	BDL
JUN	BDL	.110 <T	.130 <T	BDL
JUL	.180 <T	.170 <T	.	.
AUG	.100 <T	BDL	BDL	.080 <T

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) WSS 1989

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
SEP	NOL	NOL	.560	NOL
OCT	NOL	NOL	NOL	NOL
NOV	NOL	NOL	NOL	NOL
DEC	NOL	NOL	NOL	NOL
COBALT (UG/L)				
DET ^N LIMIT = 0.020 GUIDELINE = N/A				
JAN	.280 <T	.140 <T	.150 <T	.110 <T
FEB	.030 <T	NOL	NOL	NOL
MAR	.240 <T	.190 <T	.190 <T	.210 <T
APR	.100 <T	.030 <T	.080 <T	.050 <T
MAY	.120 <T	.220 <T	.200 <T	.150 <T
JUN	.180 <T	.150 <T	.230 <T	.120 <T
JUL	.150 <T	.120 <T	-	-
AUG	.100 <T	.080 <T	.090 <T	.110 <T
SEP	.100 <T	.130 <T	.180 <T	.160 <T
OCT	.090 <T	.100 <T	.220 <T	.110 <T
NOV	.080 <T	.060 <T	.130 <T	.030 <T
DEC	.170 <T	.210 <T	.120 <T	.140 <T
CHROMIUM (UG/L)				
DET ^N LIMIT = 0.100 GUIDELINE = 50. (A1)				
JAN	6.600	5.500	.710 <T	1.200
FEB	5.400	5.000	.800 <T	2.900
MAR	1.900	.910 <T	6.100	2.100
APR	1.700	1.200	2.700	9.000
MAY	3.700	7.100	2.600	1.600
JUN	4.200	3.000	4.800	4.600
JUL	5.900	4.400	-	-
AUG	6.300	6.300	5.900	1.100
SEP	5.200	1.300	4.000	2.400
OCT	.530 <T	4.200	1.000 <T	4.300
NOV	.450 <T	.330 <T	.440 <T	.290 <T
DEC	.780 <T	1.000 <T	.960 <T	.860 <T
COPPER (UG/L)				
DET ^N LIMIT = .100 GUIDELINE = 1000 (A3)				
JAN	49.000	1.700	8.600	2.400
FEB	41.000	1.800	3.700	2.700
MAR	10.000	2.100	6.800	2.400
APR	7.500	1.500	10.000	2.300
MAY	5.600	1.900	6.600	2.500
JUN	10.000	1.600	6.000	2.300
JUL	68.000	1.700	-	-
AUG	18.000	2.000	2.800	2.600
SEP	36.000	2.600	10.000	2.200
OCT	29.000	1.300	19.000	2.400
NOV	13.000	1.600	6.700	2.300
DEC	11.000	1.500 <T	5.900	2.100 <T

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) WSS 1989

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

RAW		TREATED		SITE 1	
		STANDING		FREE FLOW	
IRON (UG/L)		DET'N LIMIT = 4.000 GUIDELINE = 300. (A3)			
JAN	210.000	BDL	BDL	BDL	
FEB	50.000 <T	11.000 <T	10.000 <T	12.000 <T	
MAR	28.000 <T	7.700 <T	7.000 <T	6.600 <T	
APR	24.000 <T	9.000 <T	14.000 <T	BDL	
MAY	BDL	7.000 <T	BDL	BDL	
JUN	19.000 <T	BDL	6.700 <T	BDL	
JUL	45.000 <T	6.600 <T	.	.	
AUG	38.000 <T	BDL	BDL	BDL	
SEP	29.000 <T	23.000 <T	15.000 <T	BDL	
OCT	18.000 <T	BDL	BDL	BDL	
NOV	28.000 <T	BDL	BDL	BDL	
DEC	34.000 <T	16.000 <T	18.000 <T	14.000 <T	
MERCURY (UG/L)		DET'N LIMIT = 0.010 GUIDELINE = 1.000 (A1)			
JAN	ISS	.130	.	.130	
FEB	.100	.100	.	.100	
MAR	.120	.110	.	.090	
APR	.150	.080	.	.120	
MAY	BDL	BDL	.	BDL	
JUN	ISS	ISS	.	ISS	
JUL	BDL	BDL	.	.	
AUG	BDL	BDL	.	BDL	
SEP	BDL	BDL	.	BDL	
OCT	BDL	BDL	.	BDL	
NOV	.020 <T	BDL	.	BDL	
DEC	BDL	BDL	.	BDL	
MANGANESE (UG/L)		DET'N LIMIT = .050 GUIDELINE = 50.0 (A3)			
JAN	10.000	.470 <T	.650	.570	
FEB	2.700	.570	.570	.500 <T	
MAR	3.000	.530	.530	.540	
APR	2.200	.300 <T	.510	.310 <T	
MAY	.280 <T	.530	.680	.520	
JUN	3.400	.690	1.200	.940	
JUL	4.400	.700	.	.	
AUG	4.600	1.200	.730	.650	
SEP	2.500	1.200	1.200	.310 <T	
OCT	2.300	.590	.470 <T	.550	
NOV	2.700	.390 <T	.540	.270 <T	
DEC	3.600	.750	.670	.600	
MOLYBDENUM (UG/L)		DET'N LIMIT = 0.020 GUIDELINE = N/A			
JAN	1.100	1.400	1.300	1.300	
FEB	1.100	1.300	1.300	1.300	
MAR	1.500	1.400	1.500	1.500	
APR	1.400	1.500	1.600	1.500	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) WSS 1989

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
MAY	1.600	1.700	1.600	1.600
JUN	1.500	1.500	1.400	1.600
JUL	1.500	1.500	.	.
AUG	1.600	1.600	1.700	1.300
SEP	1.300	1.400	1.500	1.300
OCT	1.200	1.200	1.200	1.200
NOV	1.000	1.300	1.200	1.200
DEC	1.200	1.400	1.200	1.200

NICKEL (UG/L)

DET'N LIMIT = 0.100 GUIDELINE = 50. (F3)

JAN	2.500	2.400	6.100	2.300
FEB	BDL	BDL	BDL	BDL
MAR	1.400 <T	2.000 <T	2.400	2.300
APR	.940 <T	.950 <T	1.400 <T	.810 <T
MAY	1.700 <T	1.900 <T	1.800 <T	1.800 <T
JUN	.720 <T	1.400 <T	.710 <T	.570 <T
JUL	12.000	12.000	.	.
AUG	2.100	1.800 <T	2.000 <T	1.900 <T
SEP	1.400 <T	1.300 <T	2.800	1.100 <T
OCT	.390 <T	.120 <T	1.500 <T	1.100 <T
NOV	.880 <T	.990 <T	1.200 <T	1.500 <T
DEC	1.600 <T	1.500 <T	2.000 <T	1.600 <T

LEAD (UG/L)

DET'N LIMIT = 0.050 GUIDELINE = 50. (A1)

JAN	.860	.060 <T	.470	.360
FEB	.420	.150 <T	.280	.350
MAR	.560	.210	.660	.250
APR	.260	BDL	1.100	.080 <T
MAY	.150 <T	.330	.740	.330
JUN	.360	.040 <T	.780	.260
JUL	.540	.190 <T	.	.
AUG	.530	.160 <T	.300	.400
SEP	.300	.960	1.500	.500
OCT	1.100	.070 <T	1.900	2.300
NOV	.190 <T	.060 <T	.620	.520
DEC	.360 <T	.090 <T	.440 <T	.100 <T

ANTIMONY (UG/L)

DET'N LIMIT = .050 GUIDELINE = 146. (D4)

JAN	.470	.560	.580	.580
FEB	.530	.560	.550	.550
MAR	.720	.750	.800	.770
APR	.590	.590	.670	.600
MAY	.920	.980	.860	.880
JUN	.900	1.100	.970	.990
JUL	.740	.710	.	.
AUG	.880	.900	1.000	.820
SEP	.590	.600	.640	.570

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) WSS 1989

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
OCT	.580	.730	.620	.550
NOV	.610	.620	.610	.530
DEC	.690	.630	.620	.730
SELENIUM (UG/L)			DET'M LIMIT = 0.200 GUIDELINE = 10. (A1)	
JAN	BDL	BDL	1.200 <T	.900 <T
FEB	1.300 <T	2.700 <T	1.600 <T	1.500 <T
MAR	7.100 <T	8.900 <T	5.000 <T	5.100 <T
APR	1.100 <T	5.400 <T	6.500 <T	8.200 <T
MAY	.680 <T	2.500 <T	1.000 <T	3.400 <T
JUN	3.100 <T	1.500 <T	3.000 <T	1.700 <T
JUL	BDL	3.700 <T	.	.
AUG	BDL	3.200 <T	4.100 <T	2.000 <T
SEP	1.600 <T	1.700 <T	2.000 <T	BDL
OCT	BDL	BDL	BDL	BDL
NOV	BDL	BDL	BDL	BDL
DEC	1.200 <T	BDL	BDL	BDL
STRONTIUM (UG/L)			DET'M LIMIT = .050 GUIDELINE = N/A	
JAN	180.000	180.000	180.000	180.000
FEB	170.000	170.000	170.000	170.000
MAR	180.000	190.000	180.000	170.000
APR	180.000	190.000	190.000	190.000
MAY	180.000	180.000	180.000	180.000
JUN	170.000	180.000	180.000	180.000
JUL	180.000	180.000	.	.
AUG	190.000	190.000	200.000	190.000
SEP	180.000	180.000	190.000	160.000
OCT	180.000	180.000	180.000	190.000
NOV	180.000	180.000	190.000	180.000
DEC	180.000	170.000	170.000	170.000
TITANIUM (UG/L)			DET'M LIMIT = .050 GUIDELINE = N/A	
JAN	12.000	3.500	3.100	3.200
FEB	2.600	2.100	3.200	3.300
MAR	5.400	3.800	3.700	3.900
APR	6.900	6.400	6.400	6.000
MAY	2.900	4.100	4.300	3.900
JUN	7.100	7.600	8.100	8.200
JUL	4.800	4.200	.	.
AUG	6.200	4.400	4.700	4.100
SEP	8.000	10.000	9.000	7.000
OCT	4.100	3.900	3.500	3.300
NOV	3.700	3.700	3.100	3.400
DEC	3.400 <T	3.600 <T	3.600 <T	3.300 <T
THALLIUM (UG/L)			DET'M LIMIT = .010 GUIDELINE = 13. (D4)	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) WSS 1989

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
JAN	BDL	.020 <T	BDL	BDL
FEB	BDL	.040 <T	BDL	.110 <T
MAR	BDL	.020 <T	BDL	BDL
APR	.110 <T	.040 <T	BDL	BDL
MAY	.040 <T	.030 <T	.020 <T	.020 <T
JUN	.050 <T	.030 <T	.020 <T	BDL
JUL	.020 <T	BDL	.	.
AUG	.050 <T	.070 <T	BDL	BDL
SEP	.030 <T	.030 <T	.020 <T	BDL
OCT	BDL	BDL	BDL	BDL
NOV	.040 <T	.030 <T	BDL	BDL
DEC	BDL	BDL	BDL	BDL
URANIUM (UG/L)			DET'N LIMIT = .020 GUIDELINE = 100. (B1)	
JAN	.390	.360	.340	.380
FEB	.290	.340	.380	.450
MAR	.510	.500	.420	.420
APR	.520	.550	.550	.600
MAY	.600	.510	.570	.510
JUN	.420	.410	.490	.570
JUL	.630	.530	.	.
AUG	.610	.660	.620	.580
SEP	.440	.460	.540	.520
OCT	.340	.390	.340	.320
NOV	.320	.370	.350	.350
DEC	.290 <T	.360 <T	.300 <T	.270 <T
VANADIUM (UG/L)			DET'N LIMIT = .050 GUIDELINE = N/A	
JAN	.700	.530	.510	.500 <T
FEB	.130 <T	.230 <T	.190 <T	.170 <T
MAR	.280 <T	.480 <T	.480 <T	.480 <T
APR	.220 <T	.550	.550	.550
MAY	.310 <T	.600	.620	.590
JUN	.270 <T	.470 <T	.500 <T	.460 <T
JUL	.340 <T	.550	.	.
AUG	.370 <T	.530	.590	.620
SEP	.390 <T	.630	.530	.440 <T
OCT	.270 <T	.410 <T	.470 <T	.480 <T
NOV	.300 <T	.500 <T	.510	.530
DEC	.280 <T	.400 <T	.400 <T	.450 <T
ZINC (UG/L)			DET'N LIMIT = .001 GUIDELINE = 5000. (A3)	
JAN	5.600	2.000	14.000	2.400
FEB	2.900	1.600	4.000	2.300
MAR	2.700	1.900	6.600	2.200
APR	2.200	2.000	11.000	2.600
MAY	1.400	3.200	6.600	2.700

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) WSS 1989

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
JUN	3.300	3.000	7.200	2.800
JUL	5.900	2.000	.	.
AUG	4.300	2.100	3.100	3.100
SEP	3.200	5.200	13.000	2.400
OCT	12.000	1.200	34.000	1.800
NOV	24.000	2.000	7.500	2.300
DEC	2.400	1.700 <T	8.100	2.000 <T

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) WSS 1989

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

RAW		TREATED		SITE 1			
				STANDING		FREE FLOW	

PESTICIDES & PCB							
ALPHA BHC (NG/L)				DET'M LIMIT = 1.000		GUIDELINE = 700 (G)	
JAN	2.000 <T	2.000 <T	.	2.000 <T			
FEB	2.000 <T	2.000 <T	.	2.000 <T			
MAR	2.000 <T	2.000 <T	.	3.000 <T			
APR	BDL	BDL	.	BDL			
MAY	1.000 <T	BDL	.	BDL			
JUN	2.000 <T	4.000 <T	.	1.000 <T			
JUL	2.000 <T	3.000 <T	.	.			
AUG	BDL	BDL	.	2.000 <T			
SEP	BDL	1.000 <T	.	2.000 <T			
OCT	BDL	1.000 <T	.	2.000 <T			
NOV	1.000 <T	2.000 <T	.	5.000 <T			
DEC	BDL	BDL	.	BDL			

LINDANE (NG/L)				DET'M LIMIT = 1.000		GUIDELINE = 4000 (A1)	
JAN	1.000 <T	BDL	.	1.000 <T			
FEB	BDL	BDL	.	BDL			
MAR	BDL	BDL	.	BDL			
APR	BDL	BDL	.	BDL			
MAY	BDL	BDL	.	BDL			
JUN	BDL	BDL	.	BDL			
JUL	BDL	BDL	.	.			
AUG	BDL	BDL	.	BDL			
SEP	BDL	BDL	.	BDL			
OCT	BDL	BDL	.	1.000 <T			
NOV	BDL	BDL	.	1.000 <T			
DEC	BDL	BDL	.	BDL			

ATRAZINE (NG/L)				DET'M LIMIT = 50.00		GUIDELINE = 60000 (B3)	
JAN	BDL	BDL	.	BDL			
FEB	BDL	BDL	.	BDL			
MAR	11R	BDL	.	BDL			
APR	BDL	BDL	.	BDL			
MAY	110.000 <T	BDL	.	BDL			
JUN	BDL	BDL	.	BDL			
JUL	BDL	BDL	.	.			
AUG	100.000 <T	110.000 <T	.	.			
SEP	BDL	BDL	.	.			
OCT	10U	10U	.	.			
NOV	190.000 <T	90.000 <T	.	.			
DEC	BDL	BDL	.	.			

D-ETHYL ATRAZINE (NG/L)				DET'M LIMIT = N/A		GUIDELINE = N/A	
JAN	BDL	BDL	.	BDL			
FEB	BDL	BDL	.	BDL			
MAR	11R	BDL	.	BDL			

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) WSS 1989

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
APR	BDL	BDL	.	BDL
MAY	BDL	BDL	.	BDL
JUN	BDL	BDL	.	BDL
JUL	BDL	BDL	.	.
AUG	BDL	870.000 <T	.	.
SEP	BDL	BDL	.	.
OCT	1QU	1QU	.	.
NOV	BDL	BDL	.	.
DEC	BDL	BDL	.	.

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) WSS 1989

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW

	PHENOLICS			
PHENOLICS (UG/L)			DET'N LIMIT = 0.2	GUIDELINE = 2.00 (A3)
JAN	1.600	1.000	.	.
FEB	1.600	1.200	.	.
MAR	1.200	.800 <T	.	.
APR	1.600	.600 <T	.	.
MAY	1.000 <T	.800 <T	.	.
JUN	1.400	1.200	.	.
JUL	2.800	2.000	.	.
AUG	.800 <T	.600 <T	.	.
SEP	.800 <T	1.200	.	.
OCT	1.000 <T	.600 <T	.	.
NOV	BDL	BDL	.	.
DEC	.200 <T	.200 <T	.	.

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) WSS 1989

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

RAW		TREATED		SITE 1	
				STANDING	FREE FLOW

VOLATILES				DET'M LIMIT = .050 GUIDELINE = 5.0 (B1)	
BENZENE (UG/L)					
JAN	BDL	BDL	.	BDL	
FEB	BDL	BDL	.	BDL	
MAR	BDL	BDL	.	BDL	
APR	BDL	BDL	.	BDL	
MAY	BDL	BDL	.	BDL	
JUN	BDL	BDL	.	BDL	
JUL	BDL	BDL	.	.	
AUG	.050 <T	BDL	.	.050 <T	
SEP	BDL	BDL	.	.050 <T	
OCT	BDL	BDL	.	BDL	
NOV	BDL	BDL	.	BDL	
DEC	BDL	.050 <T	.	.050 <T	

TOLUENE (UG/L)				DET'M LIMIT = .050 GUIDELINE = 24.0 (B4)	
JAN	.150 <T	.200 <T	.	.200 <T	
FEB	BDL	.150 <T	.	BDL	
MAR	BDL	.050 <T	.	.050 <T	
APR	.050 <T	.100 <T	.	.050 <T	
MAY	.100 <T	.100 <T	.	BDL	
JUN	BDL	BDL	.	.050 <T	
JUL	BDL	BDL	.	.	
AUG	.100 <T	.050 <T	.	.150 <T	
SEP	BDL	.050 <T	.	.150 <T	
OCT	BDL	BDL	.	BDL	
NOV	BDL	BDL	.	BDL	
DEC	BDL	.050 <T	.	.050 <T	

ETHYLBENZENE (UG/L)				DET'M LIMIT = .050 GUIDELINE = 2.4 (B4)	
JAN	.100 <T	.100 <T	.	.100 <T	
FEB	BDL	.150 <T	.	.050 <T	
MAR	.050 <T	.050 <T	.	.100 <T	
APR	.100 <T	.050 <T	.	BDL	
MAY	.050 <T	BDL	.	.050 <T	
JUN	BDL	BDL	.	BDL	
JUL	BDL	.100 <T	.	.	
AUG	BDL	BDL	.	BDL	
SEP	BDL	BDL	.	BDL	
OCT	BDL	BDL	.	BDL	
NOV	BDL	BDL	.	BDL	
DEC	BDL	BDL	.	BDL	

M-XYLENE (UG/L)				DET'M LIMIT = .100 GUIDELINE = 300 (B4)	
JAN	BDL	BDL	.	BDL	
FEB	BDL	BDL	.	BDL	
MAR	BDL	BDL	.	BDL	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) WSS 1989

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

RAW		TREATED		SITE 1	
				STANDING	FREE FLOW

APR	BDL	BDL	.	.200	<T
MAY	.500 <T	.100 <T	.	.200	<T
JUN	BDL	BDL	.	BDL	
JUL	BDL	BDL	.	.	
AUG	BDL	BDL	.	.100	<T
SEP	BDL	BDL	.	BDL	
OCT	BDL	BDL	.	BDL	
NOV	BDL	BDL	.	BDL	
DEC	BDL	BDL	.	BDL	

O-XYLENE (UG/L)				DET'M LIMIT = .050 GUIDELINE = 300 (B4)	
JAN	BDL	BDL	.	BDL	
FEB	BDL	.050 <T	.	BDL	
MAR	BDL	BDL	.	BDL	
APR	BDL	BDL	.	.150	<T
MAY	.100 <T	.050 <T	.	.100	<T
JUN	BDL	BDL	.	BDL	
JUL	BDL	BDL	.	.	
AUG	BDL	BDL	.	.100	<T
SEP	BDL	BDL	.	BDL	
OCT	BDL	BDL	.	BDL	
NOV	BDL	BDL	.	BDL	
DEC	BDL	BDL	.	BDL	

STYRENE (UG/L)				DET'M LIMIT = .050 GUIDELINE = 46.5 (D2)	
JAN	.450 <T	BDL	.	BDL	
FEB	.300 <T	.200 <T	.	.050	<T
MAR	.400 <T	BDL	.	BDL	
APR	.550 UCS	.100 <T	.	.150	<T
MAY	.100 <T	BDL	.	BDL	
JUN	.100 <T	BDL	.	BDL	
JUL	.200 <T	BDL	.	.	
AUG	.050 <T	BDL	.	.050	<T
SEP	BDL	BDL	.	.100	<T
OCT	.100 <T	BDL	.	BDL	
NOV	.050 <T	BDL	.	BDL	
DEC	BDL	BDL	.	BDL	

CHLOROFORM (UG/L)				DET'M LIMIT = .100 GUIDELINE = 350 (A1+)	
JAN	.200 <T	23.500	.	21.600	
FEB	BDL	16.200	.	18.900	
MAR	BDL	18.500	.	18.600	
APR	BDL	19.600	.	16.800	
MAY	BDL	18.500	.	17.600	
JUN	BDL	14.900	.	18.300	
JUL	BDL	31.700	.	.	
AUG	BDL	13.700	.	18.100	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) WSS 1989

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
SEP	BDL	17.100	.	22.100
OCT	BDL	16.100	.	13.700
NOV	BDL	23.500	.	17.600
DEC	.300 <T	25.600	.	25.800

111, TRICHLOROETHANE (UG/L)			DET'M LIMIT = .020 GUIDELINE = 200 (D1)	
JAN	BDL	BDL	.	BDL
FEB	BDL	BDL	.	BDL
MAR	BDL	BDL	.	BDL
APR	.080 <T	BDL	.	BDL
MAY	.020 <T	.040 <T	.	BDL
JUN	BDL	BDL	.	BDL
JUL	BDL	BDL	.	BDL
AUG	.020 <T	.020 <T	.	BDL
SEP	BDL	.040 <T	.	.040 <T
OCT	BDL	BDL	.	BDL
NOV	BDL	BDL	.	BDL
DEC	BDL	BDL	.	BDL

1,2 DICHLOROPROPANE (UG/L)			DET'M LIMIT = .050 GUIDELINE = 10.0 (G)	
JAN	BDL	BDL	.	BDL
FEB	BDL	BDL	.	BDL
MAR	BDL	BDL	.	BDL
APR	BDL	BDL	.	BDL
MAY	BDL	BDL	.	BDL
JUN	BDL	BDL	.	BDL
JUL	BDL	BDL	.	BDL
AUG	BDL	BDL	.	BDL
SEP	BDL	BDL	.	BDL
OCT	BDL	BDL	.	BDL
NOV	BDL	BDL	.	BDL
DEC	BDL	BDL	.	.050 <T

DICHLOROBROMOMETHANE (UG/L)			DET'M LIMIT = .050 GUIDELINE = 350 (A1+)	
JAN	BDL	16.200	.	15.300
FEB	BDL	10.900	.	13.500
MAR	BDL	10.850	.	14.050
APR	.050 <T	10.600	.	11.450
MAY	BDL	12.300	.	11.050
JUN	BDL	10.500	.	12.400
JUL	BDL	18.000	.	BDL
AUG	BDL	11.200	.	13.000
SEP	BDL	11.300	.	13.750
OCT	BDL	12.350	.	12.300
NOV	BDL	15.100	.	13.500
DEC	BDL	15.750	.	15.650

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) WSS 1989

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

RAW		TREATED	SITE 1	
			STANDING	FREE FLOW
CHLORODIBROMOMETHANE (UG/L)			DET'M LIMIT = .100 GUIDELINE = 350 (A1+)	
JAN	BDL	7.200	.	6.700
FEB	BDL	6.300	.	7.100
MAR	BDL	5.500	.	7.000
APR	BDL	5.400	.	6.100
MAY	BDL	5.600	.	4.900
JUN	BDL	5.200	.	5.600
JUL	BDL	8.200	.	.
AUG	BDL	5.000	.	6.600
SEP	BDL	5.400	.	6.800
OCT	BDL	6.900	.	6.700
NOV	BDL	7.500	.	7.300
DEC	BDL	6.500	.	6.600
T-CHLOROETHYLENE (UG/L)			DET'M LIMIT = .050 GUIDELINE = 10.0 (C2)	
JAN	BDL	BDL	.	BDL
FEB	BDL	BDL	.	.100 <T
MAR	BDL	BDL	.	BDL
APR	BDL	BDL	.	BDL
MAY	BDL	BDL	.	BDL
JUN	BDL	BDL	.	.050 <T
JUL	BDL	BDL	.	.
AUG	BDL	.150 <T	.	.100 <T
SEP	BDL	BDL	.	.150 <T
OCT	BDL	BDL	.	BDL
NOV	BDL	BDL	.	BDL
DEC	BDL	BDL	.	BDL
BROMOFORM (UG/L)			DET'M LIMIT = .200 GUIDELINE = 350 (A1+)	
JAN	BDL	.400 <T	.	.600 <T
FEB	BDL	.800 <T	.	.800 <T
MAR	BDL	.600 <T	.	.800 <T
APR	BDL	.600 <T	.	.600 <T
MAY	BDL	.600 <T	.	.400 <T
JUN	BDL	.600 <T	.	.600 <T
JUL	BDL	1.400 <T	.	.
AUG	BDL	.600 <T	.	.600 <T
SEP	BDL	.600 <T	.	.600 <T
OCT	BDL	.600 <T	.	.800 <T
NOV	BDL	BDL	.	BDL
DEC	BDL	.800 <T	.	.600 <T
TOTL TRIHALOMETHANES (UG/L)			DET'M LIMIT = .500 GUIDELINE = 350 (A1)	
JAN	BDL	47.300	.	44.200
FEB	BDL	34.200	.	40.300
MAR	BDL	35.450	.	40.450
APR	BDL	36.200	.	34.950

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LORNE PARK) WSS 1989

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1	
			STANDING	FREE FLOW
MAY	BDL	37.000	.	33.950
JUN	BDL	31.200	.	36.900
JUL	BDL	59.300	.	.
AUG	BDL	30.500	.	38.300
SEP	BDL	34.400	.	43.250
OCT	BDL	35.950	.	33.500
NOV	BDL	47.100	.	38.400
DEC	BDL	48.650	.	48.700

TRACE LEVELS OF TOLUENE ARE LABORATORY ARTIFACTS DERIVED FROM THE ANALYTICAL METHODOLOGY.

TRACE LEVELS OF STYRENE ARE CONSIDERED TO BE LABORATORY ARTIFACTS RESULTING FROM THE LABORATORY SHIPPING CONTAINERS.

Table 6

SCAN/PARAMETER	UNIT	DETECTION		GUIDELINE
BACTERIOLOGICAL				
FECAL COLIFORM MEMBRANE FILTRATION	CT/100ML	0	0	(A1)
STANDARD PLATE COUNT MEMBRANE FILTRATION	CT/ML	0		500/ML (A1)
TOTAL COLIFORM MEMBRANE FILTRATION	CT/100ML	0		5/100mL (A1)
TOTAL COLIFORM BACKGROUND MF	CT/100ML	0		N/A
CHLOROAROMATICS				
HEXACHLOROBUTADIENE	NG/L	1.000	450.	(D4)
1,2,3-TRICHLORO BENZENE	NG/L	5.000	10000	(I)
1,2,3,4-TETRACHLORO BENZENE	NG/L	1.000	10000	(I)
1,2,3,5-TETRACHLORO BENZENE	NG/L	1.000	10000	(I)
1,2,4-TRICHLORO BENZENE	NG/L	5.000	10000	(I)
1,2,4,5-TETRACHLORO BENZENE	NG/L	1.000	38000	(D4)
1,3,5-TRICHLORO BENZENE	NG/L	5.000	10000	(D4)
HEXACHLORO BENZENE	NG/L	1.0	10.	(C1)
HEXACHLOROETHANE	NG/L	1.000	1900.	(D4)
OCTACHLOROSTYRENE	NG/L	1.000	N/A	
PENTACHLORO BENZENE	NG/L	1.000	74000	(D4)
2,3,6-TRICHLOROTOLUENE	NG/L	5.000	N/A	
2,4,5-TRICHLOROTOLUENE	NG/L	5.000	N/A	
2,6,8-TRICHLOROTOLUENE	NG/L	5.000	N/A	
CHLOROPHENOLS				
2,3,4-TRICHLOROPHENOL	NG/L	50.	N/A	
2,3,4,5-TETRACHLOROPHENOL	NG/L	50.	N/A	
2,3,5,6-TETRACHLOROPHENOL	NG/L	50.	N/A	
2,4,5-TRICHLOROPHENOL	NG/L	50.	2600000	(D4)
2,4,6-TRICHLOROPHENOL	NG/L	50.	2000.	(B4)
PENTACHLOROPHENOL	NG/L	50.	30000.	(B4)
CHEMISTRY (FLD)				
FIELD COMBINED CHLORINE RESIDUAL	MG/L	N/A	N/A	
FIELD FREE CHLORINE RESIDUAL	MG/L	N/A	N/A	
FIELD TOTAL CHLORINE RESIDUAL	MG/L	N/A	N/A	
FIELD PH	DMSNLESS	N/A	6.5-8.5	(A4)
FIELD TEMPERATURE	°C	N/A	<15 °C	(A1)
FIELD TURBIDITY	FTU	N/A	1.0	(A1)
CHEMISTRY (LAB)				
ALKALINITY	MG/L	.200	30-500	(A4)
CALCIUM	MG/L	.100	100.	(F2)
CYANIDE	MG/L	.001	.20	(A1)
CHLORIDE	MG/L	.200	250.	(A3)
COLOUR	TCU	.5	5.0	(A3)
CONDUCTIVITY	UMHO/CM	1.	400.	(F2)
FLUORIDE	MG/L	.01	2.4	(A1)
HARDNESS	MG/L	.50	80-100	(A4)
MAGNESIUM	MG/L	.05	30.	(F2)

SCAN/PARAMETER	UNIT	DETECTION	
		LIMIT	GUIDELINE
NITRITE	MG/L	.001	1.0 (A1)
TOTAL NITRATES	MG/L	.02	10. (A1)
NITROGEN TOTAL KJELDAHL	MG/L	.02	N/A
PH	DMSNLESS	N/A	6.5-8.5 (A4)
PHOSPHORUS FIL REACT	MG/L	.0005	N/A
PHOSPHORUS TOTAL	MG/L	.002	.40 (F2)
SULPHATE	MG/L	.200	500. (A3)
TOTAL SOLIDS	MG/L	1.	500. (A3)
TURBIDITY	FTU	.02	1.0 (A1)

METALS

ALUMINUM	UG/L	.050	100. (A4)
ANTIMONY	UG/L	.050	10. (F3)
ARSENIC	UG/L	.050	50. (A1)
BARIUM	UG/L	.020	1000. (A1)
BORON	UG/L	.200	5000. (A1)
BERYLLIUM	UG/L	.010	0.20 (H)
CADMIUM	UG/L	.050	5.0 (A1)
COBALT	UG/L	.020	1000. (H)
CHROMIUM	UG/L	.100	50. (A1)
COPPER	UG/L	.100	1000. (A3)
IRON	UG/L	5.0	300. (A3)
MERCURY	UG/L	.01	1.0 (A1)
MANGANESE	UG/L	.050	50. (A3)
MOLYBDENUM	UG/L	.020	500. (H)
NICKEL	UG/L	.100	50. (F3)
LEAD	UG/L	.020	50. (A1)
SELENIUM	UG/L	.200	10. (A1)
SILVER	UG/L	.020	50. (A1)
STRONTIUM	UG/L	.100	2000. (H)
THALLIUM	UG/L	.010	13. (D4)
TITANIUM	UG/L	.100	N/A
URANIUM	UG/L	.020	20. (A2)
VANADIUM	UG/L	.020	100. (H)
ZINC	UG/L	.020	5000. (A3)

PHENOLICS

PHENOLICS (UNFILTERED REACTIVE)	UG/L	.2	2.0 (A3)
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PESTICIDES & PCB

ALDRIN	NG/L	1.0	700. (A1)
AMETRINE	NG/L	50.	300000. (D3)
ATRAZINE	NG/L	50.	60000. (B3)
ALPHA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0	700. (G)
BETA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0	300. (G)
GAMMA HEXACHLOROCYCLOHEXANE (LINDANE)	NG/L	1.0	4000. (A1)
ALPHA CHLORDANE	NG/L	2.0	7000. (A1)
GAMMA CHLORDANE	NG/L	2.0	7000. (A1)
BLADEX	NG/L	100.	10000. (B3)
DIELDRIN	NG/L	2.0	700. (A1)
METHOXYCHLOR	NG/L	5.0	900000. (B1)
ENDOSULFAN 1 (THIODAN I)	NG/L	2.0	74000. (D4)
ENDOSULFAN 2 (THIODAN II)	NG/L	4.0	74000. (D4)
ENDRIN	NG/L	4.0	200. (A1)
ENDOSULFAN SULPHATE (THIODAN SULPHATE)	NG/L	4.0	N/A

SCAN/PARAMETER	DETECTION		
	UNIT	LIMIT	GUIDELINE
HEPTACHLOR EPOXIDE	NG/L	1.0	3000. (A1)
HEPTACHLOR	NG/L	1.0	3000. (A1)
METOLACHLOR	NG/L	500.	50000. (B3)
MIREX	NG/L	5.0	N/A
OXYCHLORDANE	NG/L	2.0	N/A
O, P-DDT	NG/L	5.0	30000. (A1)
PCB	NG/L	20.0	3000. (A2)
O, P-DDD	NG/L	5.0	N/A
PPDDE	NG/L	1.0	30000. (A1)
PPDDT	NG/L	5.0	30000. (A1)
ATRATONE	NG/L	50.	N/A
ALACHLOR	NG/L	500.	35000. (D2)
PROMETONE	NG/L	50.	52500. (D3)
PROPazine	NG/L	50.	16000. (D2)
PROMETRYNE	NG/L	50.	1000. (B3)
SENCOR (METRIBUZIN)	NG/L	100.	80000. (B2)
SIMAZINE	NG/L	50.	10000. (B3)

POLYAROMATIC HYDROCARBONS

PHENANTHRENE	NG/L	10.0	N/A
ANTHRACENE	NG/L	1.0	N/A
FLUORANTHENE	NG/L	20.0	42000. (D4)
PYRENE	NG/L	20.0	N/A
BENZO(A)ANTHRACENE	NG/L	20.0	N/A
CHRYSENE	NG/L	50.0	N/A
DIMETHYL BENZO(A)ANTHRACENE	NG/L	5.0	N/A
BENZO(E)PYRENE	NG/L	50.0	N/A
BENZO(B)FLUORANTHENE	NG/L	10.0	N/A
PERYLENE	NG/L	10.0	N/A
BENZO(K)FLUORANTHENE	NG/L	1.0	N/A
BENZO(A)PYRENE	NG/L	5.0	10. (B1)
BENZO(G,H,I)PERYLENE	NG/L	20.0	N/A
DIBENZO(A,H)ANTHRACENE	NG/L	10.0	N/A
INDENO(1,2,3-C,D)PYRENE	NG/L	20.0	N/A
BENZO(B)CHRYSENE	NG/L	2.0	N/A
CORONENE	NG/L	10.0	N/A

SPECIFIC PESTICIDES

TOXAPHENE	NG/L	N/A	5000. (A1)
2,4,5-TRICHLOROBUTYRIC ACID (2,4,5-T)	NG/L	50.	200000. (B4)
2,4-DICHLOROBUTYRIC ACID (2,4-D)	NG/L	100.	100000. (A1)
2,4-DICHLOROPHENOXYBUTYRIC ACID	NG/L	200.	18000. (B3)
2,4-D PROPIONIC ACID	NG/L	100.	N/A
DICAMBA	NG/L	100.	120000. (B1)
PICLORAM	NG/L	100.	190000. (B3)
SILVEX (2,4,5-TP)	NG/L	50.	10000. (A1)
DIAZINON	NG/L	20.	20000. (B1)
DICHLOROVOS	NG/L	20.	N/A
DURSBAN	NG/L	20.	N/A
ETHION	NG/L	20.	35000. (G)
GUTHION(AZINPHOSMETHYL)	NG/L	N/A	20000. (B1)
MALATHION	NG/L	20.	190000. (B1)
MEVINPHOS	NG/L	20.	N/A
METHYL PARATHION	NG/L	50.	7000. (A1)
METHYLTRITHION	NG/L	20.	N/A

SCAN/PARAMETER	DETECTION		GUIDELINE
	UNIT	LIMIT	
PARATHION	NG/L	20.	50000. (B1)
PHORATE (THIMET)	NG/L	20.	2000. (B3)
RELDAN	NG/L	20.	N/A
RONNEL	NG/L	20.	N/A
AMINOCARB	NG/L	N/A	N/A
BENONYL	NG/L	N/A	N/A
BUX (METALKAMATE)	NG/L	2000.	N/A
CARBOFURAN	NG/L	2000.	90000. (B1)
CICP (CHLORPROPHAM)	NG/L	2000.	350000. (G)
DIALATE	NG/L	2000.	30000. (H)
EPTAM	NG/L	2000.	N/A
IPC	NG/L	2000.	N/A
PROPOXUR (BAYGON)	NG/L	2000.	90000. (G)
SEVIN (CARBARYL)	NG/L	200.	90000. (B1)
SUTAN (BUTYLATE)	NG/L	2000.	245000. (D3)

VOLATILES

BENZENE	UG/L	.050	5.0 (B1)
TOLUENE	UG/L	.050	24.0 (B4)
ETHYLBENZENE	UG/L	.050	2.4 (B4)
PARA-XYLENE	UG/L	.100	300. (B4)
META-XYLENE	UG/L	.100	300. (B4)
ORTHO-XYLENE	UG/L	.050	300. (B4)
1,1-DICHLOROETHYLENE	UG/L	.100	7.0 (D1)
ETHYLENE DIBROMIDE	UG/L	.05	.05 G)
METHYLENE CHLORIDE	UG/L	.500	50. (B1)
TRANS-1,2-DICHLOROETHYLENE	UG/L	.100	70. (D5)
1,1-DICHLOROETHANE	UG/L	.100	N/A
CHLOROFORM	UG/L	.100	350. (A1+)
1,1,1-TRICHLOROETHANE	UG/L	.020	200. (D1)
1,2-DICHLOROETHANE	UG/L	.050	5.0 (D1)
CARBON TETRACHLORIDE	UG/L	.200	5.0 (B1)
1,2-DICHLOROPROPANE	UG/L	.050	6.0 (D5)
TRICHLOROETHYLENE	UG/L	.100	50. (B1)
DICHLOROBROMOMETHANE	UG/L	.050	350. (A1+)
1,1,2-TRICHLOROETHANE	UG/L	.050	.60 (D4)
CHLORODIBROMOMETHANE	UG/L	.100	350. (A1+)
TETRACHLOROETHYLENE	UG/L	.050	10.0 (C2)
BROMOFORM	UG/L	.200	350. (A1+)
1,1,2,2-TETRACHLOROETHANE	UG/L	.050	0.17 (D4)
CHLOROBENZENE	UG/L	.100	60. (D5)
1,4-DICHLOROBENZENE	UG/L	.100	1.0 (B4)
1,3-DICHLOROBENZENE	UG/L	.100	130. (G)
1,2-DICHLOROBENZENE	UG/L	.050	3.0 (B4)
TRIFLUOROCHLOROTOLUENE	UG/L	.100	N/A
TOTAL TRIHALOMETHANES	UG/L	.500	350. (A1)
STYRENE	UG/L	.05	140. (D5)